

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1317715

Luminaire Tested: LDSQA3D17R709827DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709827DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

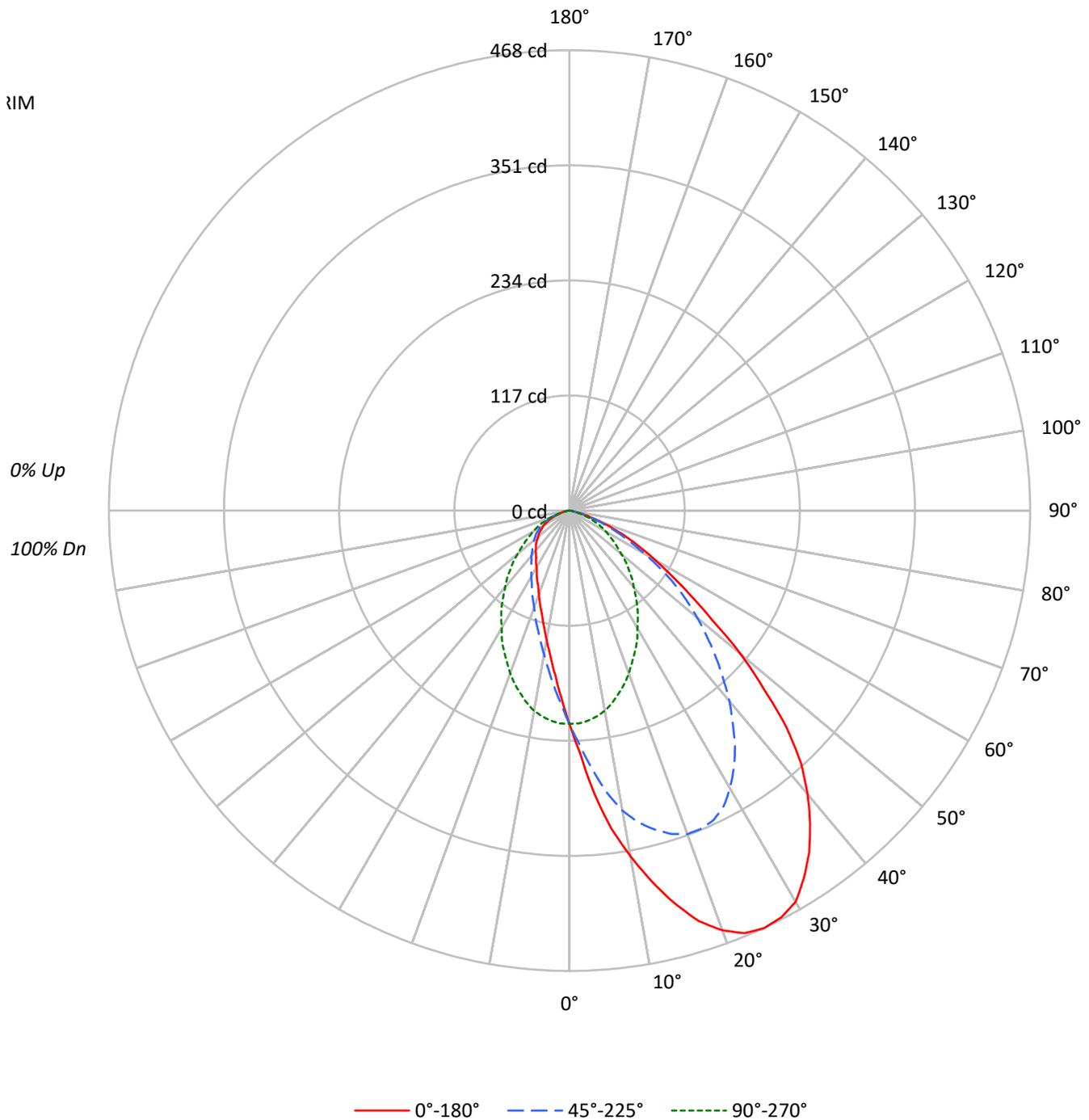
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 529.0 lumens  
Efficiency: N/A  
Efficacy: 25.9 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	37303	37303	37303	37303	37303
5°	49928	45571	37066	31015	28940
10°	62362	54143	36148	26022	23346
15°	73726	59872	34322	22234	19310
20°	83207	64146	32275	19244	16641
25°	88970	65901	29929	17045	14765
30°	91359	64830	27404	15452	13264
35°	89228	61644	25292	14255	12425
40°	84600	56812	22864	13534	12050
45°	75942	51148	20776	13055	11715
50°	60954	45441	18460	12593	11146
55°	45009	39094	16424	12491	10839
60°	34651	30518	14708	12056	10540
65°	26285	22739	12918	11125	9373
70°	17624	15962	9920	9920	7704
75°	9449	9449	6521	6521	5856
80°	2182	4364	3273	4364	5455
85°	0	2174	2174	4347	4347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 75942 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.4	4.0
10°-20°	64.9	12.3
20°-30°	100.1	18.9
30°-40°	113.6	21.5
40°-50°	102.8	19.4
50°-60°	71.9	13.6
60°-70°	39.5	7.5
70°-80°	13.2	2.5
80°-90°	1.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	186.4	35.2
0°-40°	299.9	56.7
0°-60°	474.6	89.7
0°-90°	529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	217	217	217	217	217	
5°	289	264	214	179	167	30
15°	414	336	192	125	108	118
25°	468	347	158	90	78	215
35°	424	293	120	68	59	264
45°	312	210	85	54	48	236
55°	150	130	55	42	36	138
65°	64	56	32	27	23	64
75°	14	14	10	10	9	16
85°	0	1	1	2	2	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	247.2	249.4	250.5	248.3	247.2	246.1	243.9	242.8	240.7	238.5	237.4
5°	288.8	288.8	288.8	286.6	283.3	281.1	276.8	273.5	268.0	263.6	259.2
7.5°	326.0	326.0	324.9	321.6	319.4	313.9	308.5	304.1	295.3	288.8	280.0
10°	356.6	356.6	355.5	350.0	346.8	340.2	334.7	327.1	318.3	309.6	299.7
12.5°	386.1	386.1	381.8	377.4	370.8	362.1	354.4	346.8	334.7	324.9	312.8
15°	413.5	413.5	411.3	403.6	394.9	385.0	374.1	363.2	348.9	335.8	322.7
17.5°	437.6	436.5	433.2	424.4	415.7	403.6	390.5	377.4	359.9	344.6	328.2
20°	454.0	454.0	449.6	439.7	429.9	416.8	402.5	387.2	368.6	350.0	330.4
22.5°	464.9	463.8	459.4	449.6	437.6	424.4	408.0	391.6	370.8	350.0	329.3
25°	468.2	467.1	462.7	451.8	439.7	425.5	408.0	390.5	368.6	346.8	323.8
27.5°	466.0	464.9	460.5	448.5	436.5	420.0	402.5	384.0	362.1	339.1	316.1
30°	459.4	456.1	451.8	440.8	427.7	411.3	392.7	371.9	350.0	326.0	303.0
32.5°	443.0	443.0	437.6	426.6	413.5	396.0	377.4	357.7	333.6	310.7	286.6
35°	424.4	423.3	419.0	406.9	394.9	378.5	359.9	339.1	316.1	293.2	270.2
37.5°	401.5	400.4	396.0	385.0	371.9	356.6	336.9	317.2	295.3	272.4	251.6
40°	376.3	374.1	368.6	359.9	348.9	331.4	313.9	294.3	273.5	252.7	231.9
42.5°	347.9	345.7	341.3	334.7	321.6	306.3	289.9	271.3	251.6	230.8	215.5
45°	311.8	311.8	309.6	303.0	293.2	281.1	263.6	247.2	228.6	210.0	193.6
47.5°	266.9	269.1	268.0	264.7	260.3	249.4	237.4	223.2	205.6	189.2	173.9
50°	227.5	228.6	229.7	227.5	224.2	216.6	208.9	200.2	184.9	169.6	155.3
52.5°	182.7	186.0	186.0	187.1	187.1	184.9	182.7	172.8	165.2	149.9	136.7
55°	149.9	149.9	149.9	152.0	153.1	154.2	152.0	149.9	141.1	130.2	118.1
57.5°	122.5	122.5	124.7	123.6	123.6	125.8	125.8	124.7	119.2	109.4	98.4
60°	100.6	100.6	100.6	100.6	101.7	101.7	101.7	101.7	97.4	88.6	79.9
62.5°	80.9	80.9	80.9	82.0	82.0	82.0	83.1	82.0	77.7	71.1	63.4
65°	64.5	63.4	64.5	64.5	65.6	65.6	65.6	64.5	60.2	55.8	50.3
67.5°	48.1	49.2	49.2	49.2	50.3	51.4	50.3	49.2	45.9	41.6	39.4
70°	35.0	36.1	36.1	36.1	37.2	38.3	37.2	36.1	33.9	31.7	29.5
72.5°	23.0	24.1	24.1	25.2	26.3	26.3	25.2	25.2	24.1	21.9	20.8
75°	14.2	14.2	15.3	15.3	16.4	16.4	16.4	15.3	15.3	14.2	14.2
77.5°	6.6	6.6	7.7	7.7	7.7	8.8	8.8	8.8	8.8	8.8	7.7
80°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3	4.4	4.4	4.4
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	216.6	216.6	216.6	216.6	216.6	216.6	216.6	216.6
2.5°	235.2	231.9	227.5	216.6	205.6	196.9	191.4	190.3
5°	253.8	248.3	238.5	214.4	194.7	179.4	170.6	167.4
7.5°	272.4	262.5	248.3	211.1	181.6	163.0	153.1	148.8
10°	287.7	275.7	257.1	206.7	170.6	148.8	136.7	133.5
12.5°	299.7	285.5	262.5	200.2	159.7	135.6	123.6	120.3
15°	307.4	292.1	265.8	192.5	148.8	124.7	112.7	108.3
17.5°	310.7	292.1	264.7	184.9	138.9	114.9	102.8	99.5
20°	310.7	289.9	261.4	176.1	129.1	105.0	94.1	90.8
22.5°	307.4	285.5	253.8	166.3	120.3	97.4	86.4	83.1
25°	300.8	276.8	245.0	157.5	111.6	89.7	79.9	77.7
27.5°	291.0	266.9	234.1	148.8	103.9	83.1	74.4	72.2
30°	278.9	254.9	222.1	137.8	96.3	77.7	70.0	66.7
32.5°	263.6	240.7	208.9	129.1	89.7	72.2	65.6	63.4
35°	247.2	226.4	194.7	120.3	83.1	67.8	61.3	59.1
37.5°	230.8	208.9	182.7	110.5	77.7	63.4	58.0	55.8
40°	213.3	196.9	169.6	101.7	73.3	60.2	54.7	53.6
42.5°	195.8	178.3	151.0	94.1	67.8	55.8	51.4	50.3
45°	175.0	158.6	136.7	85.3	63.4	53.6	49.2	48.1
47.5°	157.5	142.2	122.5	77.7	59.1	50.3	45.9	44.8
50°	141.1	125.8	107.2	68.9	54.7	47.0	43.8	41.6
52.5°	122.5	109.4	93.0	61.3	50.3	43.8	40.5	39.4
55°	106.1	93.0	77.7	54.7	45.9	41.6	37.2	36.1
57.5°	87.5	76.6	65.6	48.1	41.6	37.2	35.0	32.8
60°	71.1	63.4	55.8	42.7	37.2	35.0	31.7	30.6
62.5°	58.0	52.5	47.0	37.2	32.8	30.6	28.4	26.3
65°	45.9	42.7	38.3	31.7	28.4	27.3	25.2	23.0
67.5°	36.1	33.9	30.6	25.2	24.1	23.0	20.8	18.6
70°	27.3	26.3	24.1	19.7	18.6	19.7	17.5	15.3
72.5°	19.7	18.6	17.5	14.2	14.2	14.2	13.1	10.9
75°	13.1	12.0	10.9	9.8	9.8	9.8	9.8	8.8
77.5°	7.7	7.7	6.6	5.5	6.6	6.6	7.7	7.7
80°	3.3	3.3	3.3	3.3	4.4	4.4	5.5	5.5
82.5°	2.2	2.2	2.2	2.2	3.3	3.3	3.3	3.3
85°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)